



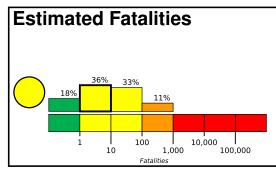


## PAGER Version 4

Created: 1 day, 0 hours after earthquake

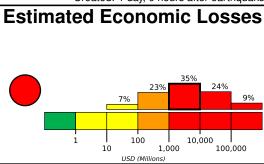
## M 5.4, 26 km S of Dezhou, China

Origin Time: 2023-08-05 18:33:58 UTC (Sun 02:33:58 local) Location: 37.2108° N 116.3785° E Depth: 10.0 km



Red alert for economic losses. Extensive damage is probable and the disaster is likely widespread. Estimated economic losses are less than 1% of GDP of China. Past events with this alert level have required a national or international level response.

Yellow alert for shaking-related fatalities. Some casualties are possible.



**Estimated Population Exposed to Earthquake Shaking** 

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	73,294k*	32,251k	2,305k	459k	164k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

## Population Exposure

Anyang

population per 1 sq. km from Landscan 1000 5000 10000

#### **Structures**

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are adobe block and unreinforced brick with mud construction.

# 118.1°E Baoding Chenguanti Rengiu Zhuanlu Dingzhou 38.4°N Shijiazhuang Dengmingsi Luanchen Hengshui Dezhou Nangong Xingta Qingnian Handan Liaocheng

## **Historical Earthquakes**

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1989-10-18	371	5.4	VII(48k)	29
1983-11-06	244	5.5	VII(1,118k)	45
1976-07-27	296	7.6	IX(2,383k)	242k

### **Selected City Exposure**

from GeoNames.org

MMI	City	Population
V	Lingcheng	<1k
٧	Dezhou	380k
٧	Xinhu	<1k
٧	Jiamaying	2k
IV	Xiliguantun	2k
IV	Laocheng	4k
IV	Jinan	4,336k
Ш	Tai'an	5,499k
Ш	Zibo	3,129k
Ш	Handan	1,358k
Ш	Shijiazhuang	2,835k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

Zhoucheng

Yanta

Puyang Chengguanzhen